

Organisms

	Activate	Acquire	Apply	Assess	Analyse
Cell structure	Life process- es	 Use microscope observations to construct an idea about what living things are made up of Use the idea of life processes to explain how cell parts work together to keep the cell alive 	 Provide evidence for why an image is a plant, animal cell or neither Suggest an explanation for how a change in a cell will affect the organism 	AcquireApply	Diagnose the flaws in an idea about how organisms carry out life functions using experimental data
Specialised cells	Body parts	Use cell adaptations to construct an idea about why cells look different	 Explain the functions of the adaptations of a specialised cell Suggest the function of specialised cells from observations 	AcquireApply	Draw conclusions based on evidence about how specialised cells can be used in a medical treatment



Consider evidence to critique the claim that life exists elsewhere in the Universe

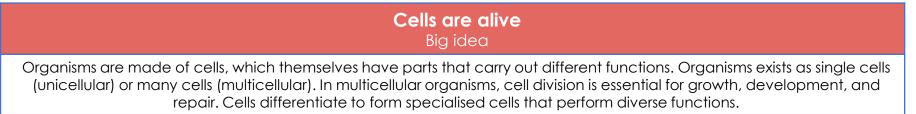
Cell biologist



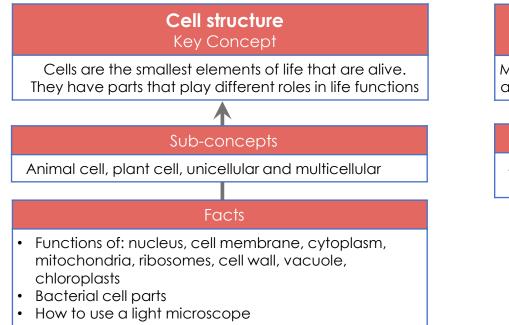


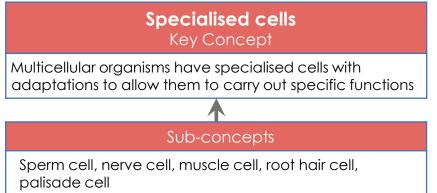
Organisms

What expert understanding do we want after 5 years?



How does the unit develop this?







Cells: Scientific thinking, maths & literacy

Organisms

How are practical skills integrated with the concepts?

	Cell	structure
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Apparatus and techniques AT.7.B

Required practical activity 1: Using a light microscope



Organisms

Which parts of KS3 are covered?

AQA KS3 syllabus: 3.8.2 Cells

Which parts of GCSE are covered?

(AQA Trilogy combined science)

Cell structure	 ✓ 4.1.1.2 Animal and plant cells 	
Specialised cells	✓ 4.1.1.3 Cell specialisation	

What resources are there to teach this unit?

Visit shop.masteryscience.com





Act Show the students an image of a meteorite that contains a mysterious cell-like structure. As them if they think this is good evidence that life exists elsewhere in the Universe and why. They should apply what they have learnt about cell structure to decide how likely it is that the structure is a cell

